



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 08305/073001/99-08/99-09/ 2057 09/595,592 06/15/2000 Anders Andersson EXAMINER 04/26/2004 7590 TILLERY, RASHAWN N

Micron Technology c/o Tom D'Amico Dickstein, Shapiro, Moran & Oshinsky 2101 L Street NW Washington, DC 20037-1526

2612

ART UNIT

DATE MAILED: 04/26/2004

PAPER NUMBER

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	09/595,592	ANDERSSON, ANDERS	i
	Examiner	Art Unit	
	Rashawn N Tillery	2612	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a on. s, a reply within the statutory minimum of thi period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	26 March 2004.		
· · · ·	This action is non-final.		
3) Since this application is in condition for al	lowance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice un	ider <i>Ex parte Quayl</i> e, 1935 C.[). 11, 453 O.G. 213.	
Disposition of Claims			
 4) Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) 9 is/are withdraws 5) Claim(s) 13-17 is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) 3-8 and 10-12 is/are objected to 8) Claim(s) are subject to restriction and continuous continuous subject to restriction and continuous subject subject to restriction and continuous subject s	wn from consideration.		
Application Papers			
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the c	accepted or b) objected to to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d)).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in A e priority documents have beer ureau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 6. 	8) Paper No(s)/Mail Date nformal Patent Application (PTO-152)	

Application/Control Number: 09/595,592

Art Unit: 2612

DETAILED ACTION

Election/Restrictions

Claim 9 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 10.

Regarding Applicant's arguments that the search for- and examination of- the nonelected species would involve no undue burden, the examiner respectfully disagrees. The examiner contends that the claim is directed to patentably distinct species related to a gain selector in figure 7.

The examiner notes that claims 3 and 13 are generic and the depending claims therefrom will be examined on the merits.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Brehmer et al (US6130423).

Regarding claim 1, Brehmer discloses, in figure 6, an imaging device comprising:

Art Unit: 2612

a plurality of active pixel sensor cells, each having a photosensor (620), a row select transistor (650), and an output transistor (621) including a gate connected to a pixels output voltage (Vdd); and

a readout circuit (602) connectable to each of the APS cells, the readout circuit including an amplifier (621, 625, 630, 650, 655; see col. 5, line 56 to col. 6, line 6), the amplifier including the row select transistor and the output transistor of each of a plurality of the active pixel sensor cells.

Regarding claim 2, discloses the amplifier provides a gain of about one or higher (se col. 5, lines 56-58).

Allowable Subject Matter

1. Claims 3-8 and 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 3, the prior art does not teach or fairly suggest an imaging device wherein the amplifier comprises a first branch comprising a first transistor, row select transistor and output transistor, a second branch comprising a second transistor, third transistor and source follower.

2. Claims 13-17 are allowed.

Regarding claim 3, the prior art does not teach or fairly suggest an imaging device comprising a plurality of active pixel sensor cells, a readout circuit including an amplifier wherein the amplifier comprises a first branch comprising a first transistor, row

Art Unit: 2612

select transistor and output transistor, a second branch comprising a second transistor, third transistor and source follower.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sauer teaches an APS readout structure. Kozlowski et al teach a readout structure of an APS circuit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rashawn N Tillery whose telephone number is 703-305-0627. The examiner can normally be reached on 9AM-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RNT